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Relevance scale **1** [Extending document management systems with user-specific active properties](#)

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2**Publisher:** ACM PressFull text available: [pdf\(166.43 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional hierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

2 [An algebra for structured office documents](#)

Ralf Hartmut Güting, Roberto Zicari, David M. Choy

April 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 2**Publisher:** ACM PressFull text available: [pdf\(2.57 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a data model for structured office information objects, which we generically call "documents," and a practically useful algebraic language for the retrieval and manipulation of such objects. Documents are viewed as hierarchical structures; their layout (presentation) aspect is to be treated separately. The syntax and semantics of the language are defined precisely in terms of the formal model, an extended relational algebra. The proposed approach has sever ...

3 [Extending the microcosm model to a distributed environment](#)


Gary Hill, Wendy Hall

September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology****Publisher:** ACM PressFull text available: [pdf\(940.00 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, there has been significant growth in the use of computer networks to

support electronic delivery of information. As the volume of available information has grown, a need for powerful tools that can manage access has arisen. It has been suggested that hypertext techniques can provide such a facility. The Microcosm system is a hypertext link service developed at the University of Southampton. The system is based upon a modular architecture which allows the functiona ...

Keywords: distributed, hypertext, microcosm, open


4 Open hypermedia and the web: Offering open hypermedia services to the WWW: a step-by-step approach for developers 



Nikos Karousos, Ippokratis Pandis, Siegfried Reich, Manolis Tzagarakis


May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(86.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Hypermedia systems and more specifically open hypermedia systems (OHS) provide a rich set of implementations of different hypertext flavors such as navigational hypertext, spatial hypertext or taxonomic hypertext. Additionally, these systems offer component-based modular architectures and address interoperability between hypertext domains. Despite multiple efforts of integrating Web clients, a widespread adoption of OHS technology by Web developers has not taken place. In this paper it is argued ...

Keywords: babylon system, hypermedia services, open hypermedia systems, web services


5 Integrating geographic information systems, spatial digital libraries and information spaces for conducting humanitarian assistance and disaster relief operations in urban environments 



Vished Kumar, Alejandro Bugacov, Murilo Coutinho, Robert Neches

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available:  pdf(950.37 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: collaboration, digital libraries, disaster relief operations, geographic information systems, information spaces, visualization

6 Composite document extended retrieval: an overview 



Edward A. Fox

June 1985 **Proceedings of the 8th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#)

Experimental information retrieval (IR) systems, some dating back to the sixties, have demonstrated the viability of fully automatic document storage and retrieval methodologies with small to medium size bibliographic collections [72]. Many of these experimental systems utilize the vector space model in which each important term (such as a word stem) identifies a different dimension in a space, so that matrix methods and vector operations can be defined on queries and documents. Statistical ...


7 Document management and Web technologies: Alice marries the Mad Hatter 





V. Balasubramanian, Alf Bashian

July 1998 **Communications of the ACM**, Volume 41 Issue 7

Publisher: ACM Press

Full text available:  [pdf\(209.52 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

8 [Applications: A visual interface for synchronous collaboration and negotiated transactions](#) 

 Lutz Wegner, Manfred Paul, Jens Thamm, Sven Thelemann

May 1996 **Proceedings of the workshop on Advanced visual interfaces**

Publisher: ACM Press

Full text available:  [pdf\(2.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper introduces a visual interface for computer-supported cooperative work (CSCW). The interface is an extension of the editor interface of ESCHER, a prototype database system based on the extended non-first-normal-form data model. In ESCHER, the nested table approach is the paradigm for presenting data, where presenting includes browsing, editing and querying the database. Interaction is achieved by fingers generalising the well-known cursor concept. When several users a ...

9 [Change management needs integrated process and configuration management](#) 

 Gregor Joeris

November 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering ESEC '97/FSE-5**, Volume 22 Issue 6

Publisher: Springer-Verlag New York, Inc., ACM Press

Full text available:  [pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 [A case for document management functions on the Web](#) 

 Gail L. Rein, Daniel L. McCue, Judith A. Slein

September 1997 **Communications of the ACM**, Volume 40 Issue 9

Publisher: ACM Press

Full text available:  [pdf\(415.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 [Digital libraries in the classroom: Integrating digital libraries into learning environments: the LEBONED approach](#) 

Frank Oldenettel, Michael Malachinski, Dennis Reil

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: IEEE Computer Society

Full text available:  [pdf\(299.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper presents the project LEBONED that focuses on the integration of digital libraries and their contents into web-based learning environments. We describe in general how the architecture of a standard learning management system has to be modified to enable the integration of digital libraries. An important part of this modification is the LEBONED Metadata Architecture which depicts the handling of metadata and documents imported from digital libraries. The main components of this architec ...

12 [Integrated document and workflow management applied to the offer processing of a machine tool company](#) 

 Stefan Morschheuser, Heinz Raufer

August 1995 **Proceedings of conference on Organizational computing systems**

Publisher: ACM Press

Full text available:  [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

[terms](#)

Introducing document and workflow management systems causes two main problems: How can the supported business processes be adequately modeled? How can existing information systems and databases be integrated? Within this paper, we present tools, methods and other approaches, which are designed to solve these problems. They are illustrated by the offer processing of a machine tool company. This process starts with a custome ...

13 [Middleware: a model for distributed system services](#)



Philip A. Bernstein

February 1996 **Communications of the ACM**, Volume 39 Issue 2

Publisher: ACM Press

Full text available: [pdf\(238.25 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

14 [A Multimedia Enhanced CSCW Teleservice for Wide Area Cooperative Authoring of Multimedia Documents](#)



Heiko Thimm

December 1994 **ACM SIGOIS Bulletin**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: [pdf\(872.72 KB\)](#) Additional Information: [full citation](#)

15 [Aggregation and generalization hierarchies in office automation](#)



M. Bever, D. Ruland

April 1988 **ACM SIGOIS Bulletin , Conference Sponsored by ACM SIGOIS and IEEECS TC-OA on Office information systems**, Volume 9 Issue 2-3

Publisher: ACM Press

Full text available: [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Integrated database support is an essential part in Office Automation. Because of the variety of objects, their relationships and operations, more sophisticated data modelling concepts such as aggregation and long fields, cross references, aggregation hierarchies, and generalizations are needed. In this paper, we show their importance to Office Automation. Because long fields and aggregation are already supported by existing data models, we focus on the two data abstraction concepts: aggreg ...

16 [Getting some perspective: using process descriptions to index document history](#)



Paul Dourish, Richard Bentley, Rachel Jones, Allan MacLean

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Publisher: ACM Press

Full text available: [pdf\(1.53 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)


Process descriptions are used in workflow and related systems to describe the flow of work and organisational responsibility in business processes, and to aid in coordination. However, the division of a working process into a sequence of steps provides only a partial view of the work involved. In many cases, the performance of individual tasks in a larger process may depend on interpretations and understandings of how other aspects of the work were conducted. We p ...

Keywords: awareness, process execution, process modeling, visualisation, workflow

17

[Bridging the physical and the digital: Where the wild things work: capturing shared physical design workspaces](#)



 Wendy Ju, Arna Ionescu, Lawrence Neeley, Terry Winograd
November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have built and tested WorkspaceNavigator, which supports knowledge capture and reuse for teams engaged in unstructured, dispersed, and prolonged collaborative design activity in a dedicated physical workspace. It provides a coherent unified interface for post-facto retrieval of multiple streams of data from the work environment, including overview snapshots of the workspace, screenshots of in-space computers, whiteboard images, and digital photos of physical objects. This paper describes t ...

Keywords: collaborative design, knowledge capture/reuse, memory augmentation, physical environments, workspaces

18 [Information visualization for hypermedia systems](#)

 Sougata Mukherjea
December 1999 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available:  pdf(29.80 KB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: focus+context views, information visualization


19 [Epidemic algorithms in replicated databases \(extended abstract\)](#)

 D. Agrawal, A. El Abbadi, R. C. Steinke
May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**


Publisher: ACM Press

Full text available:  pdf(1.59 MB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

20 [A multiple presentation document management system](#)

 Augusto Celentano, Silvano Pozzi, Donato Toppeta
November 1992 **Proceedings of the 10th annual international conference on Systems documentation**

Publisher: ACM Press

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The paper proposes an approach to the definition of a document management system oriented to the support of cooperative activities based on multiple-presentation documents. In our view, multiple-presentation means that the informative content of a document can be presented to the reader by using different shapes, styles and levels of detail, according to the reader profile. The Zelig document management system is based on the definition of an only conceptua ...

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 Relevance scale

 41 [Managing the process: The software concordance: a new software document](#)
[management environment](#)

Tien N. Nguyen, Ethan V. Munson

 October 2003 **Proceedings of the 21st annual international conference on Documentation**

Publisher: ACM Press

Full text available: pdf(177.42 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

In this paper, we describe the efforts of Juniper Networks to implement a Feature Guide documentation manual and discuss the usability merits of this documentation method.

Keywords: documentation, hypermedia, software engineering

 42 [Synthetic hypertext and hyperfiction: Dynamically growing hypertext collections](#)

Pratik Dave, Paul Logasa Bogen, Unmil P. Karadkar, Luis Francisco-Revilla, Richard Furuta, Frank Shipman

 August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPertext '04**

Publisher: ACM Press

Full text available: pdf(727.53 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many approaches have been pursued over the years to facilitate creating, organizing, and sharing collections of materials extracted from large information spaces. Little attention, in the context of hypertext collections, has been paid to the addition of new materials to these collections over time. Traditionally, human maintainers manually incorporate new materials into existing collections as they appear in the underlying network. In this paper we address the issues involved in supporting the ...

Keywords: RSS, WWW, Walden's paths, hypertext collections, path-centric browsing, web site syndication

 43 [Systems 1: multi-camera systems: MedSMan: a streaming data management system](#)
[over live multimedia](#)

Bin Liu, Amarnath Gupta, Ramesh Jain

 November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(436.69 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Querying live media streams is a challenging problem that is becoming an essential requirement in a growing number of applications. Research in multimedia information systems has addressed and made good progress in dealing with archived data. Meanwhile, research in stream databases has received significant attention for querying alphanumeric symbolic streams. The lack of a unifying data model capable of representing multimedia data and providing reasonable abstractions for querying live multimed ...

Keywords: continuous queries, events, languages, multimedia, stream

44 Web Information Integration: Automating the transformation of XML documents

 Hong Su, Harumi Kuno, Elke A. Rundensteiner
November 2001 **Proceedings of the 3rd international workshop on Web information and data management**

Publisher: ACM Press

Full text available:  [pdf\(522.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The advent of web services that use XML-based message exchanges has spurred many efforts that address issues related to inter-enterprise service electronic commerce interactions. Currently emerging standards and technologies enable enterprises to describe and advertise their own Web Services and to discover and determine how to interact with services fronted by other businesses. However, these technologies do not address the problem of how to reconcile structural differences between similar type ...

45 A workplan for business process reengineering and a challenge for information science and technology

 Bill Schwartz, Betty W. Hwang, C. Jinshong Hwang
February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**

Publisher: ACM Press

Full text available:  [pdf\(1.71 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

46 Prototyping in industrial software projects—bridging the gap between theory and practice


Horst Lichter, Matthias Schneider-Hufschmidt, Heinz Züllighoven
May 1993 **Proceedings of the 15th international conference on Software Engineering**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [references](#), [citings](#)

Keywords: case study, evolutionary software development, horizontal prototyping, pilot system, presentation prototype, prototyping, vertical prototyping

47 A programming model for active documents


 Paul Dourish, W. Keith Edwards, Jon Howell, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Doug Terry, Jim Thornton
November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available:  [pdf\(115.49 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)


Keywords: active properties, component software, customization, document management


48 [A real world conversion to SGML](#) 

 Dee Stribling, Tim Hunter, Len Olszewski, Anne Corrigan, Randy Mullis, Lloyd Allen
October 1996 **Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle**

Publisher: ACM Press

Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)

49 [TopicShop: enhanced support for evaluating and organizing collections of Web sites](#) 

 Brian Amento, Loren Terveen, Will Hill, Deborah Hix
November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available:  [pdf\(526.36 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

50 [Advanced XML technologies and applications: Consistently updating XML documents using incremental constraint check queries](#) 


 Bintou Kane, Hong Su, Elke A. Rundensteiner
November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Publisher: ACM Press

Full text available:  [pdf\(399.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


When updating a valid XML document, an efficient yet light-weight mechanism is needed to determine if the up-date would invalidate the document. Towards this goal, we developed a framework called SAXE, we first analyzed the constraints expressed in XML schema specifications and establish constraint rules that must be observed for an XML document to conform to a given XML Schema. We then classify the rules as relevant for a given update case, that is, we show the minimal set of rules that must be ...

Keywords: XML schema, XML update, XQuery

51 [Session2: Process descriptions as organisational accounting devices: the dual use of workflow technologies](#) 

 Paul Dourish
September 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work**

Publisher: ACM Press

Full text available:  [pdf\(150.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Workflow technologies present a problem for CSCW. On the one hand, they are perhaps the most successful form of groupware technology in current use; but on the other, they have been subject to sustained and cogent critiques, particularly from perspective of the analysis of everyday working activities. This leads inevitably to the question: in the face of these critiques, just why and how do workflow technologies prove effective? This paper suggests that part of the solution lies in the fact th ...

52 [Special section on advanced XML data processing: Advanced XML data processing: guest editor's introduction](#) 

 Karl Aberer
September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3

Publisher: ACM Press


Full text available:  [pdf\(284.41 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

53 [Demonstrations: Haystack: a user interface for creating, browsing, and organizing arbitrary semistructured information](#) 

David R. Karger, Dennis Quan


April 2004 **CHI '04 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available:  pdf(178.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Much past HCI research has examined the usability concerns of information management software for specific domains such as object-oriented software design, e-mail, and the Web. We believe that many of the results uncovered by these studies are applicable across multiple domains but that more broadly-scoped experiments require a system that can integrate multiple data sources. Haystack is a general-purpose information management environment designed to attack this very problem. Haystack's user in ...

Keywords: RDF, direct manipulation, semistructured data, views

54 [The C-ODA project: online access to electronic journals](#) 

Peter Kirstein, Goli Montasser-Kohsari

June 1996 **Communications of the ACM**, Volume 39 Issue 6

Publisher: ACM Press


Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

55 [Languages & Authoring for the Semnatic Web: Authoring and annotation of web pages in CREAM](#) 

Siegfried Handschuh, Steffen Staab

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(764.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Richly interlinked, machine-understandable data constitute the basis for the Semantic Web. We provide a framework, CREAM, that allows for creation of metadata. While the annotation mode of CREAM allows to create metadata for existing web pages, the authoring mode lets authors create metadata --- almost for free --- while putting together the content of a page. As a particularity of our framework, CREAM allows to create *relational metadata*, i.e. metadata that instantiate interrelated defini ...


Keywords: RDF, annotation, metadata, semanticWeb

56 [Ontologies: A pragmatic application of the semantic web using SemTalk](#) 

Christian Fillies, Gay Wood-Albrecht, Frauke Weichardt

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(368.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

There is a new layer of the Internet that enables semantic representation of the contents of existing web pages. Using common ontologies, human users sketch out the most important facts in models that act as intelligent whiteboards. Once models are broadcasted to the Internet, new and intelligent search engines, "ambient" intelligent devices and agents would be able to exploit this knowledge network. [1]. The main idea of SemTalk is to empower end users to contribute to the Semantic Web by offering ...

Keywords: business process modeling, glossary and ontologies, semantic web

57 Experiences using object data management in the real world 



Akmal B. Chaudhri

January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Publisher: ACM Press

Full text available:  pdf(736.12 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

58 Information storage and management in large web-based applications using XML 

Manirupa Das, Pamela B. Lawhead

June 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  pdf(45.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Extensible Markup Language [XML], was intended to be a meta-language, when it was initially approved as a Web Standard by the World Wide Web Consortium (W3C), in February of 1998. Since then, it has come a very long way in applicability and popularity and is fast becoming the Standard for Data Interchange over the Web. XML has now formed the foundation for a completely new way of communicating across the Internet. The power of XML to be applied universally to a number of areas lies in the fa ...

Keywords: applying XML, data and document management, information management, information storage, large web applications, online course delivery


59 Workshop report on experiences using object data management in the real-world 



Akmal B. Chaudhri

March 1998 **ACM SIGMOD Record**, Volume 27 Issue 1

Publisher: ACM Press

Full text available:  pdf(28.69 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The OOPSLA '97 Workshop on *Experiences Using Object Data Management in the Real-World* was held at the Cobb Galleria Centre in Atlanta, Georgia on Monday 6 October 1997. This report summarises some of the commercial case-study presentations made by workshop participants.


60 Papers: breaking out of the monitor: Manipulating structured information in a visual workspace 



Haowei Hsieh, Frank M. Shipman

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available:  pdf(423.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper describes the VITE system, a visual workspace that supports two-way mapping for projecting structured information to a two-dimensional workspace and updating the structured information based on user interactions in the workspace. This is related to information visualization, but reflecting visual edits in the structured data requires a two-way mapping from data to visualization and from visualization to data. VITE provides users with an interface for designing two-way mappings. Mappin ...



Keywords: editable visualizations, information visualization, information workspace, two-way mappings

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